Document 5 of 10

Fig. 1

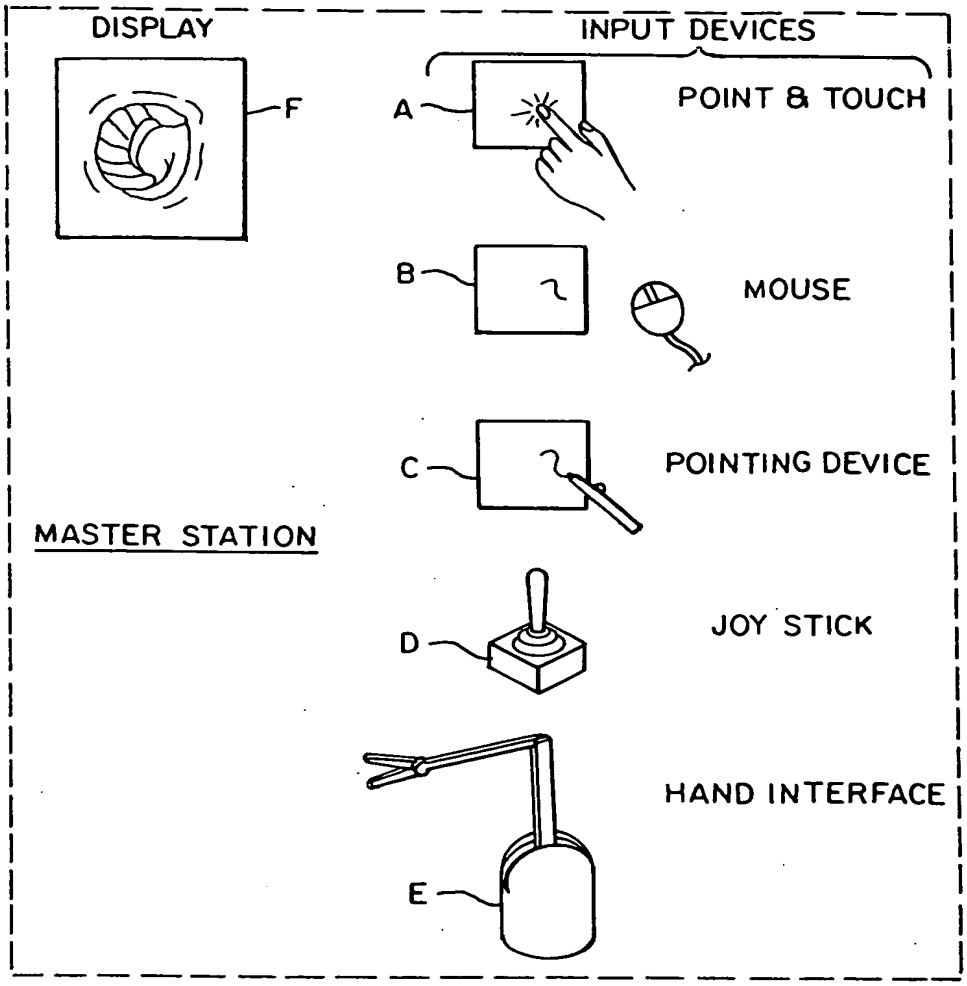

Fig. 2

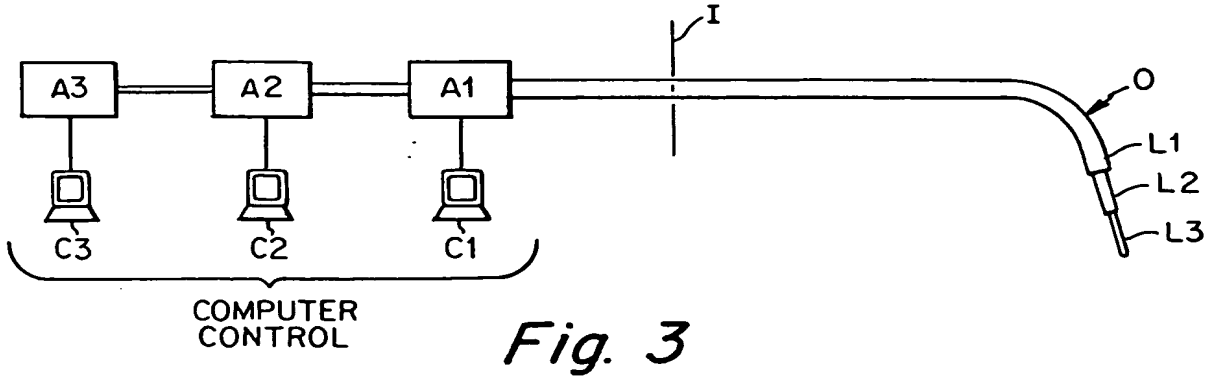

Fig. 3

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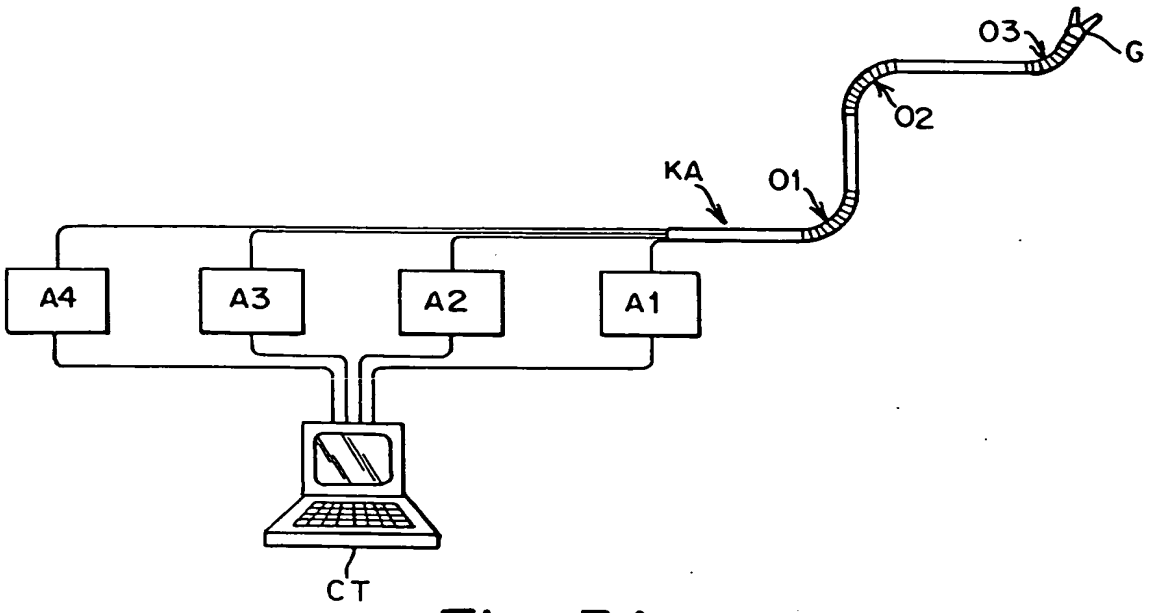

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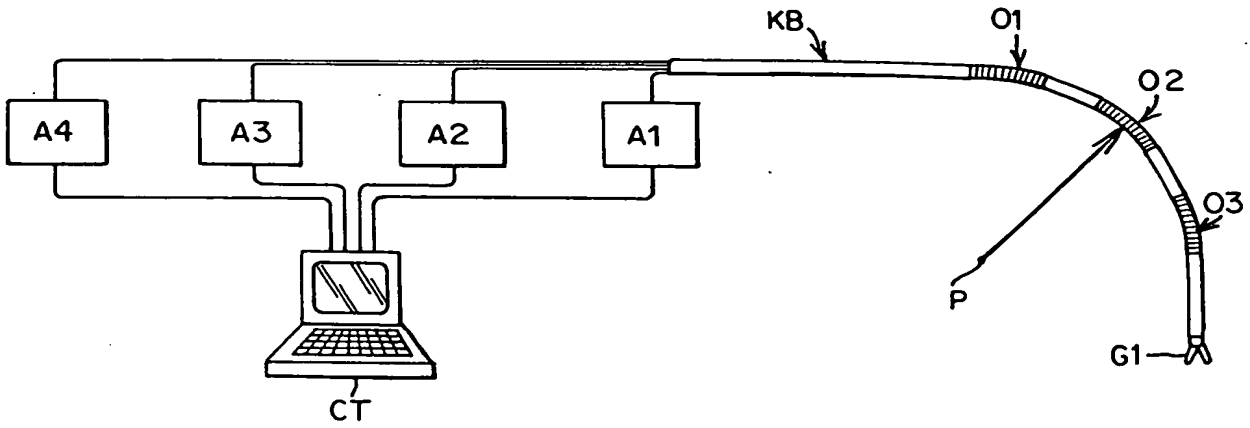

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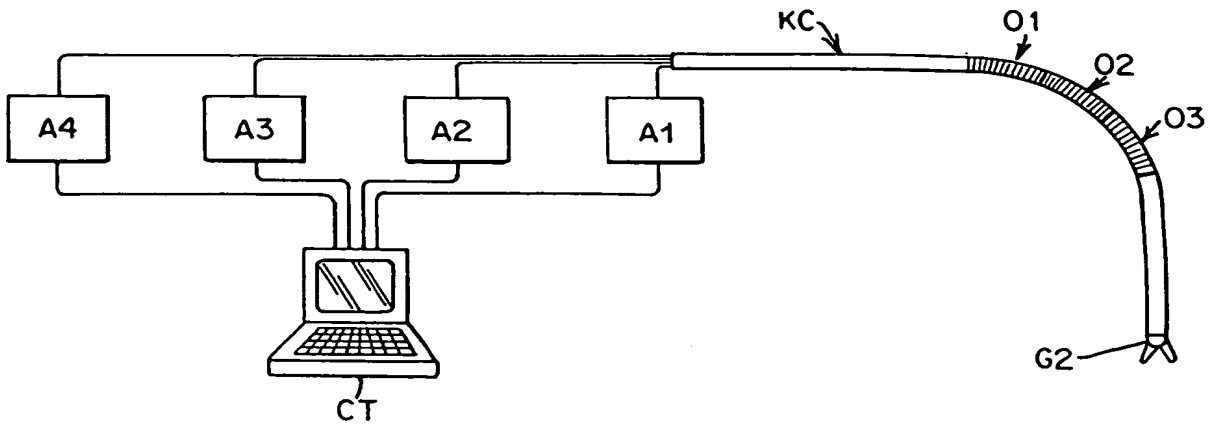

Fig. 3C

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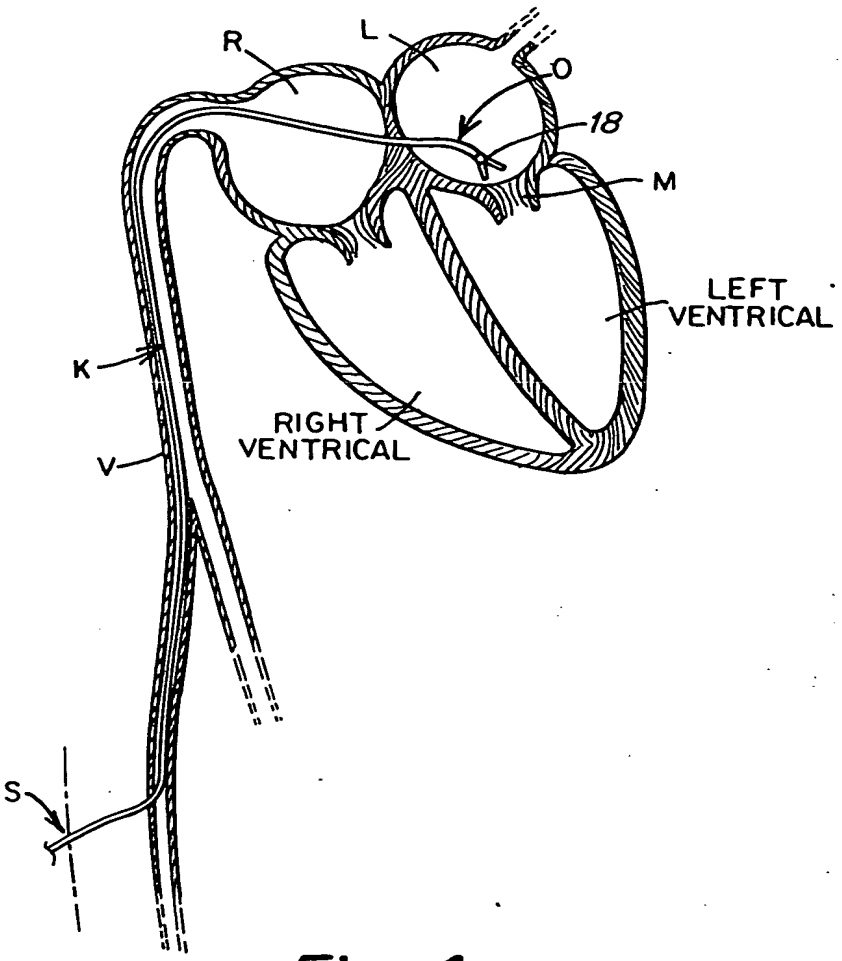

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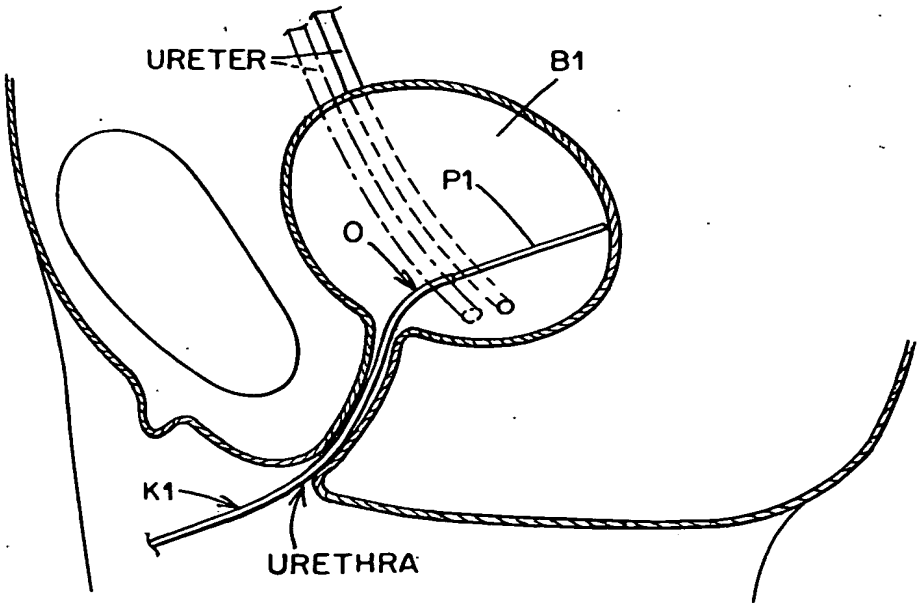

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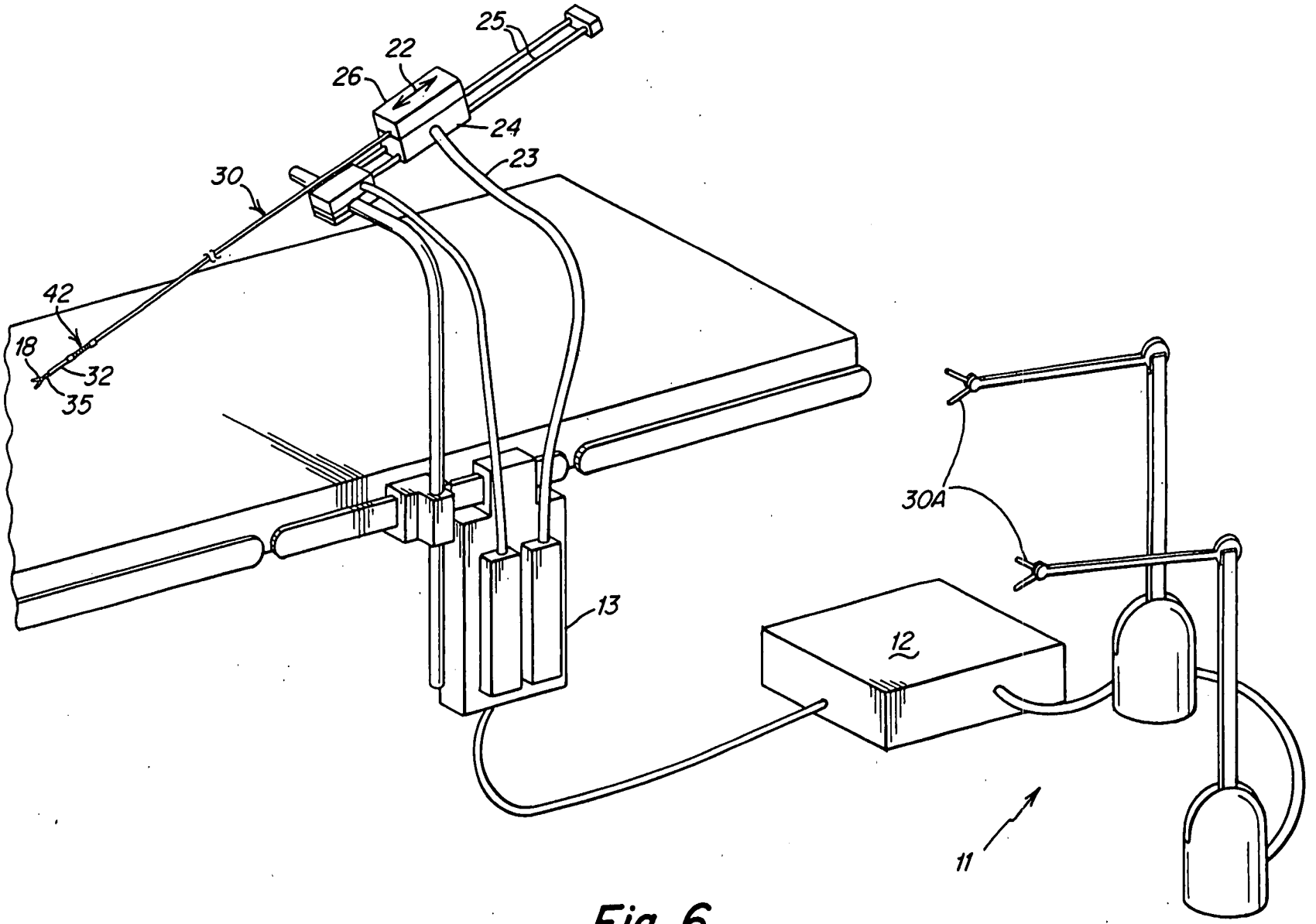

Fig. 6

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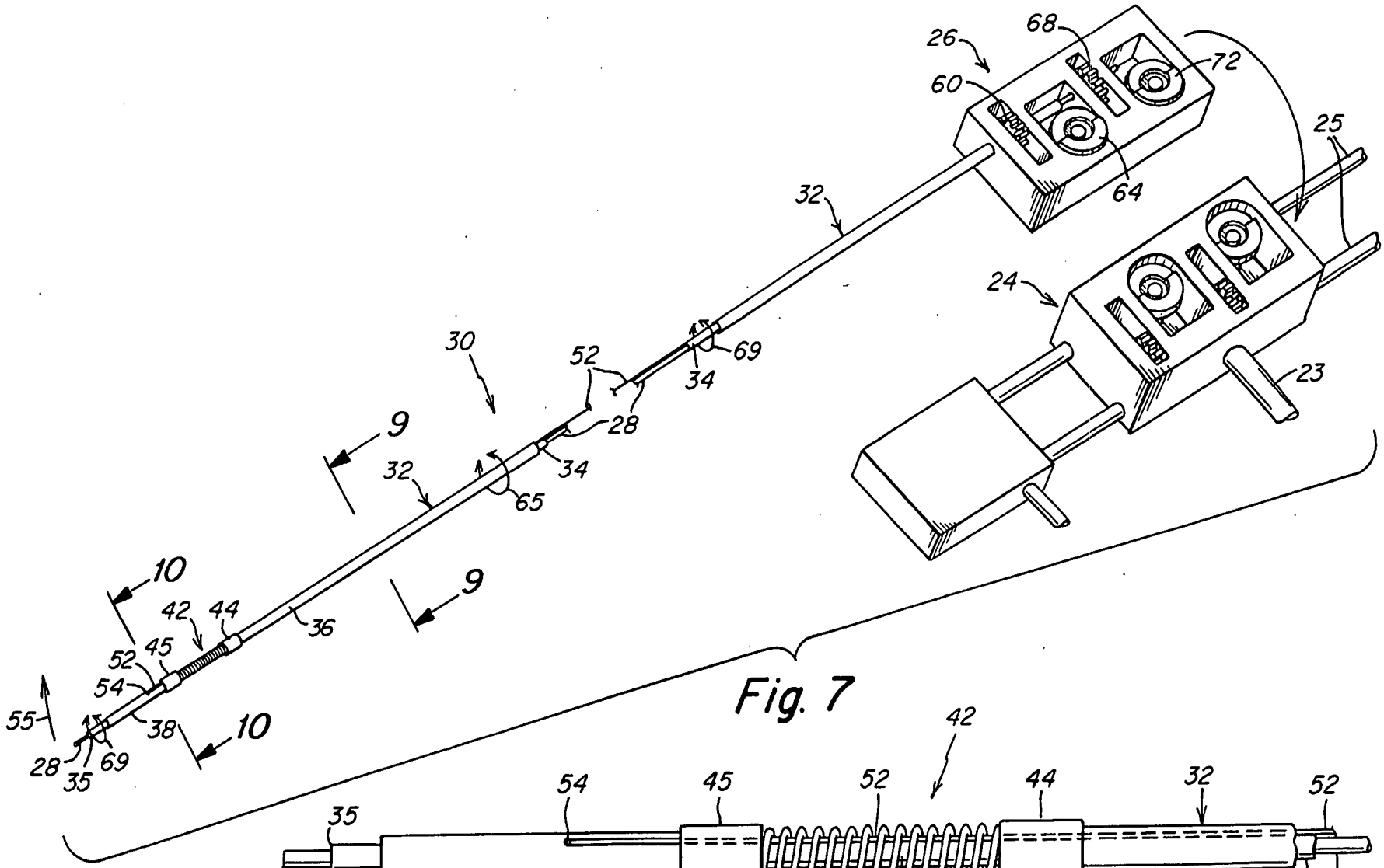

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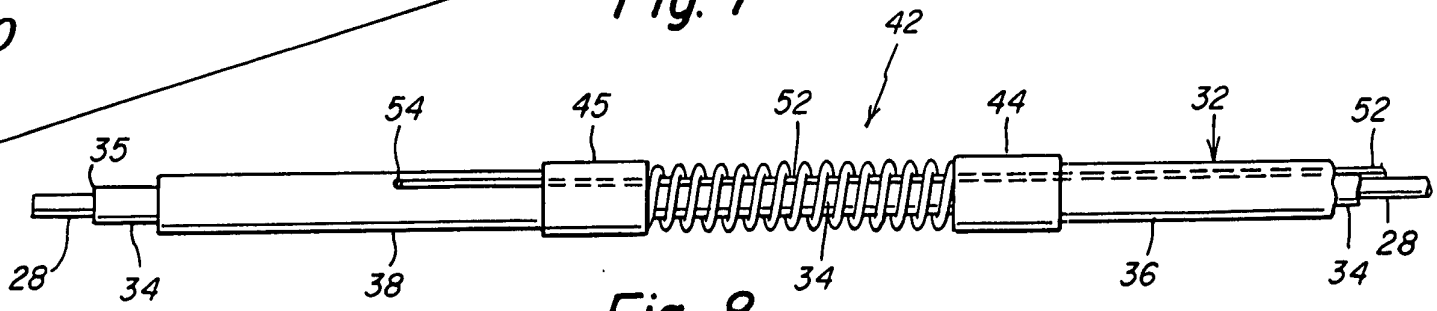

Fig. 8

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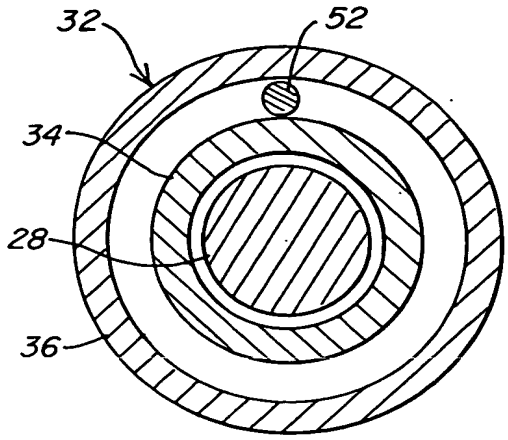

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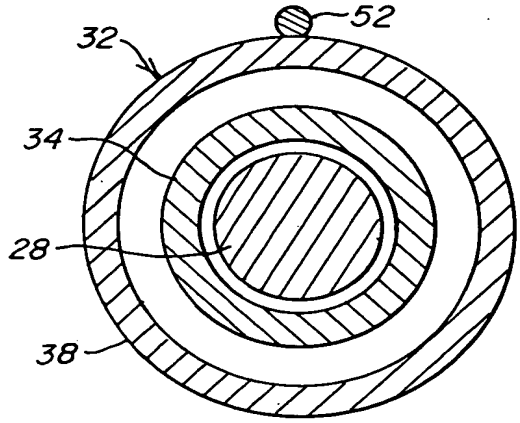

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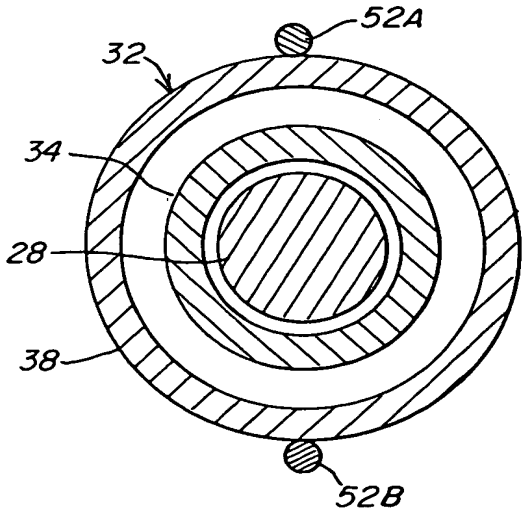

Fig. 11

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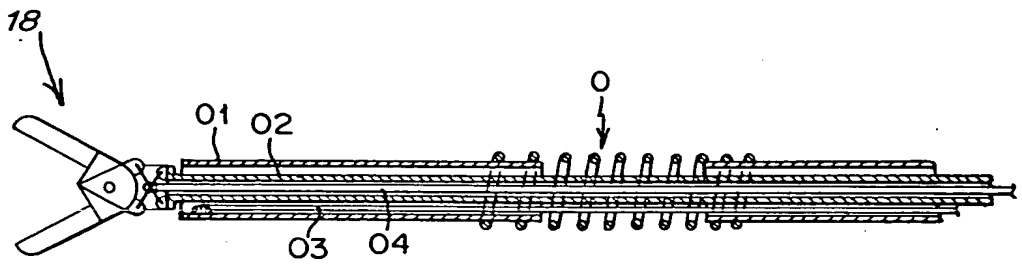

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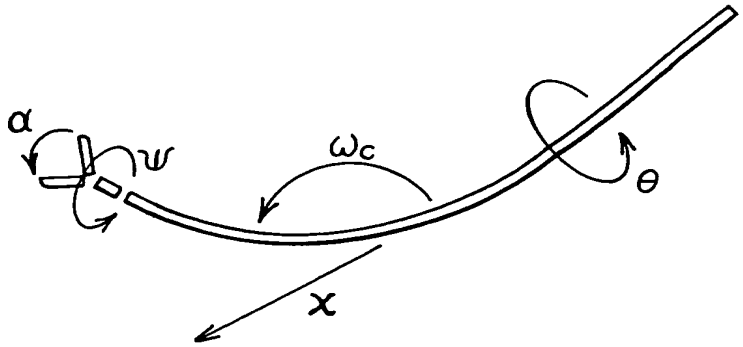

Fig. 13

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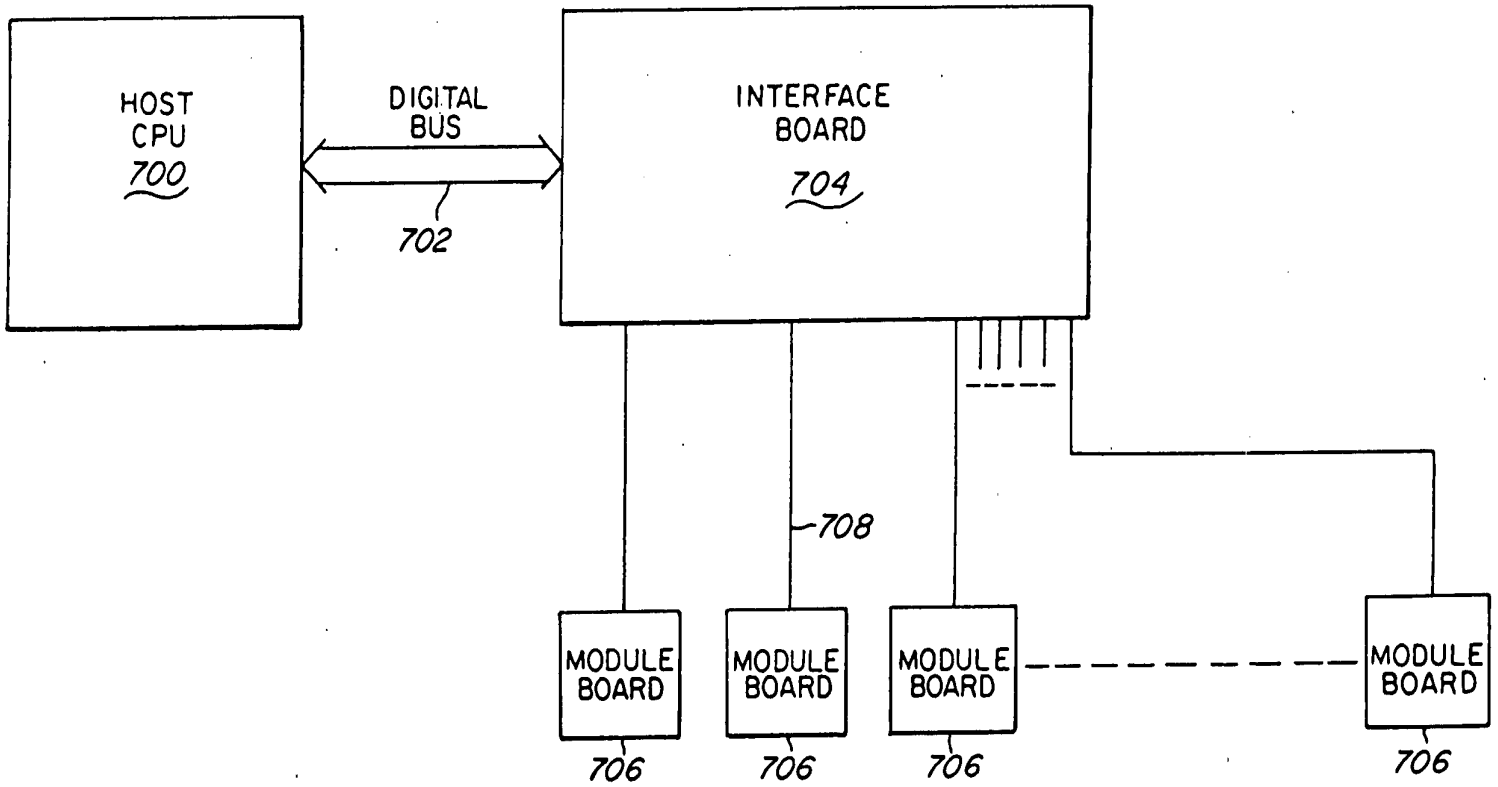

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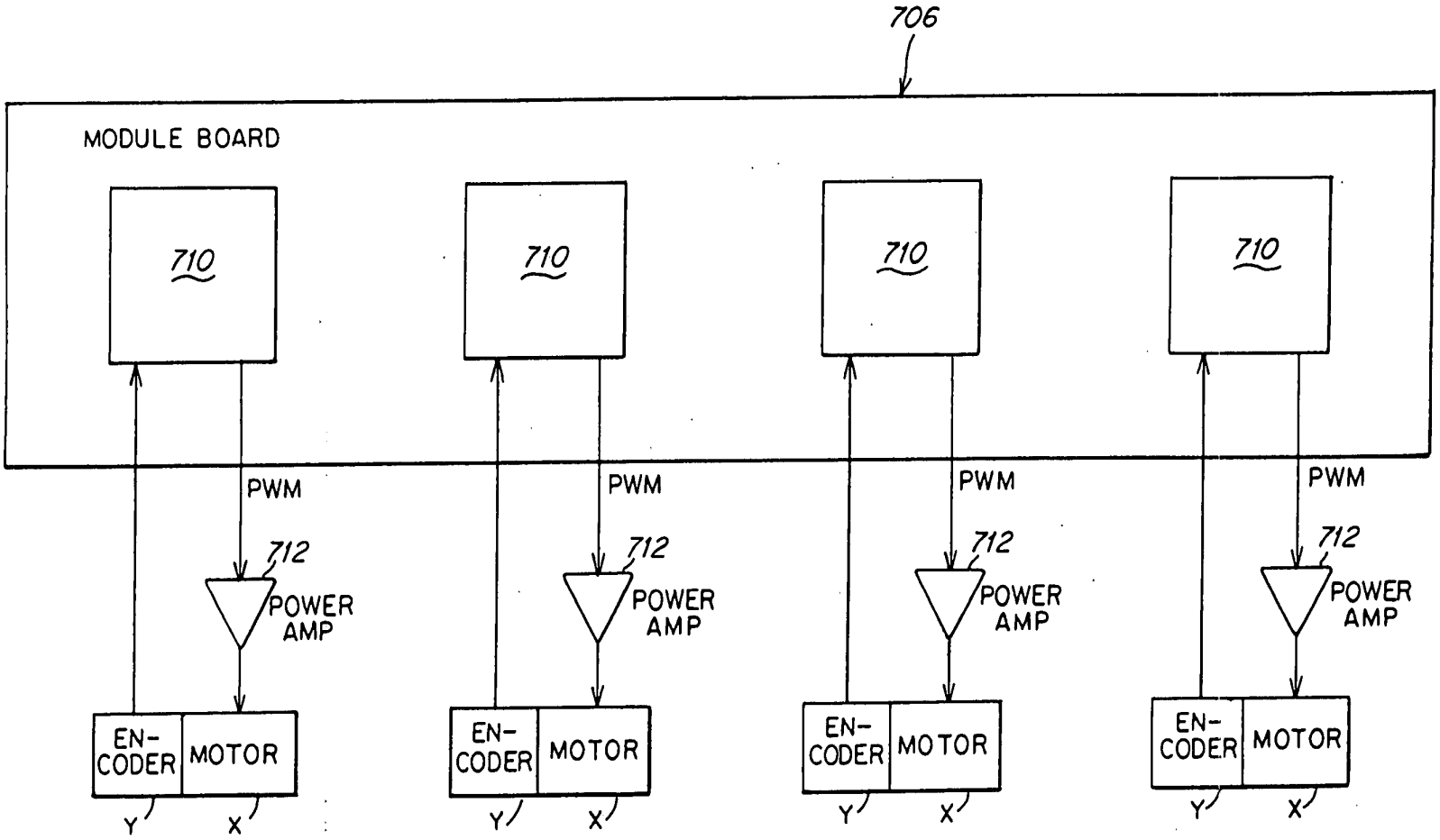
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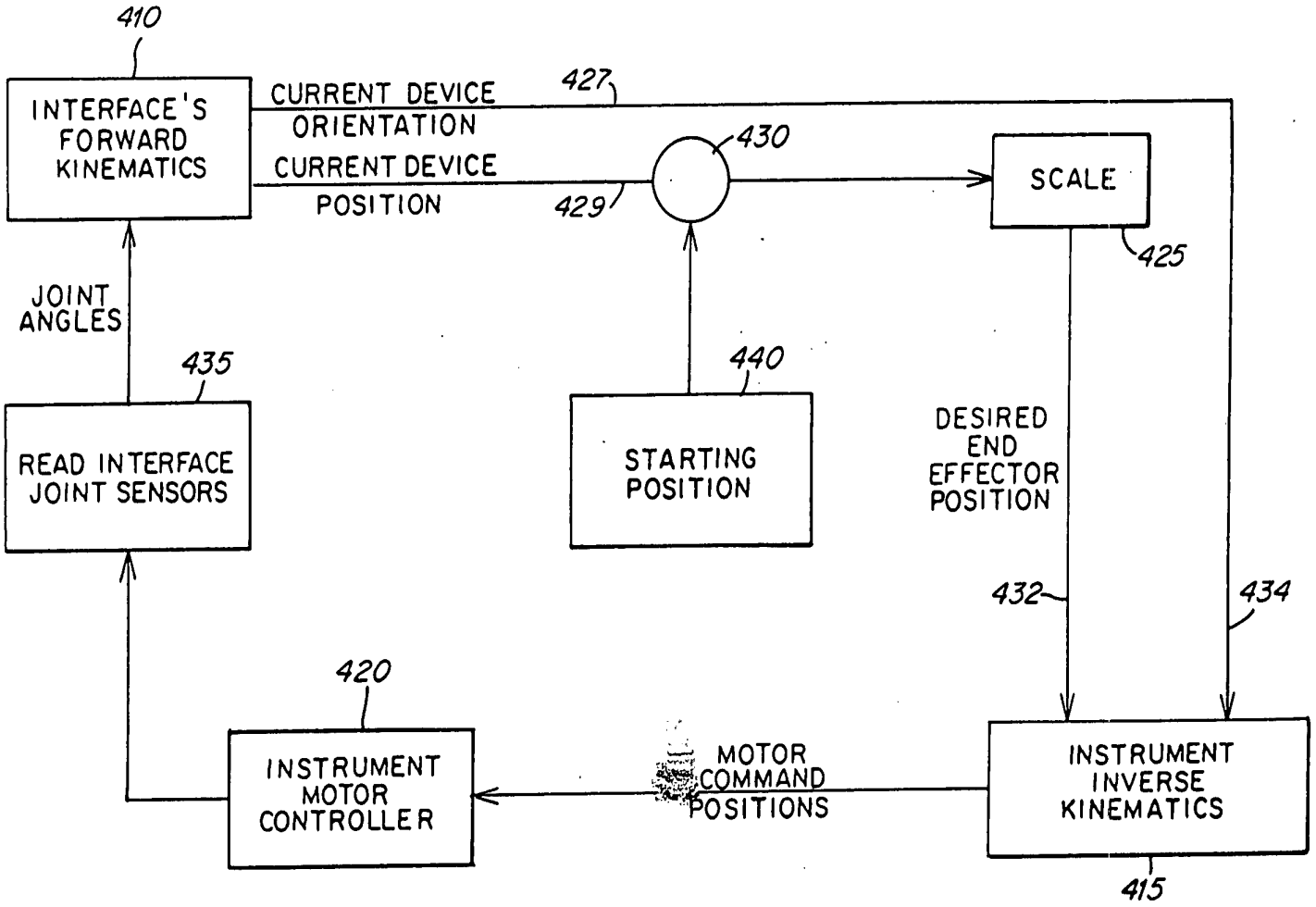
Fig. 15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INTERFACE'S FORWARD KINEMATICS
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CURRENT DEVICE POSITION
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429
SCALE
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JOINT ANGLES
435
READ INTERFACE JOINT SENSORS
440
STARTING POSITION
DESIRED END EFFECTOR POSITION
432
434
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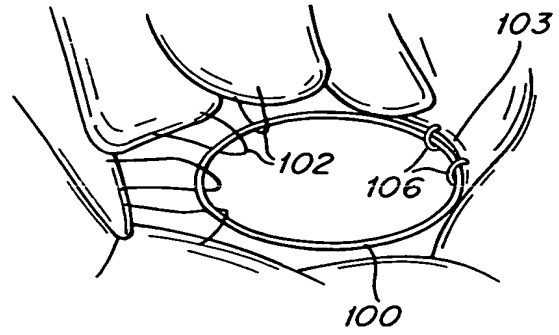
INSTRUMENT MOTOR CONTROLLER
MOTOR COMMAND POSITIONS
INSTRUMENT INVERSE KINEMATICS
415

Fig. 16

ADOBE-EXHIBIT



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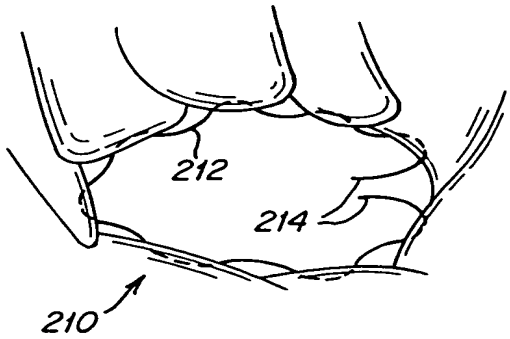

Fig. 18

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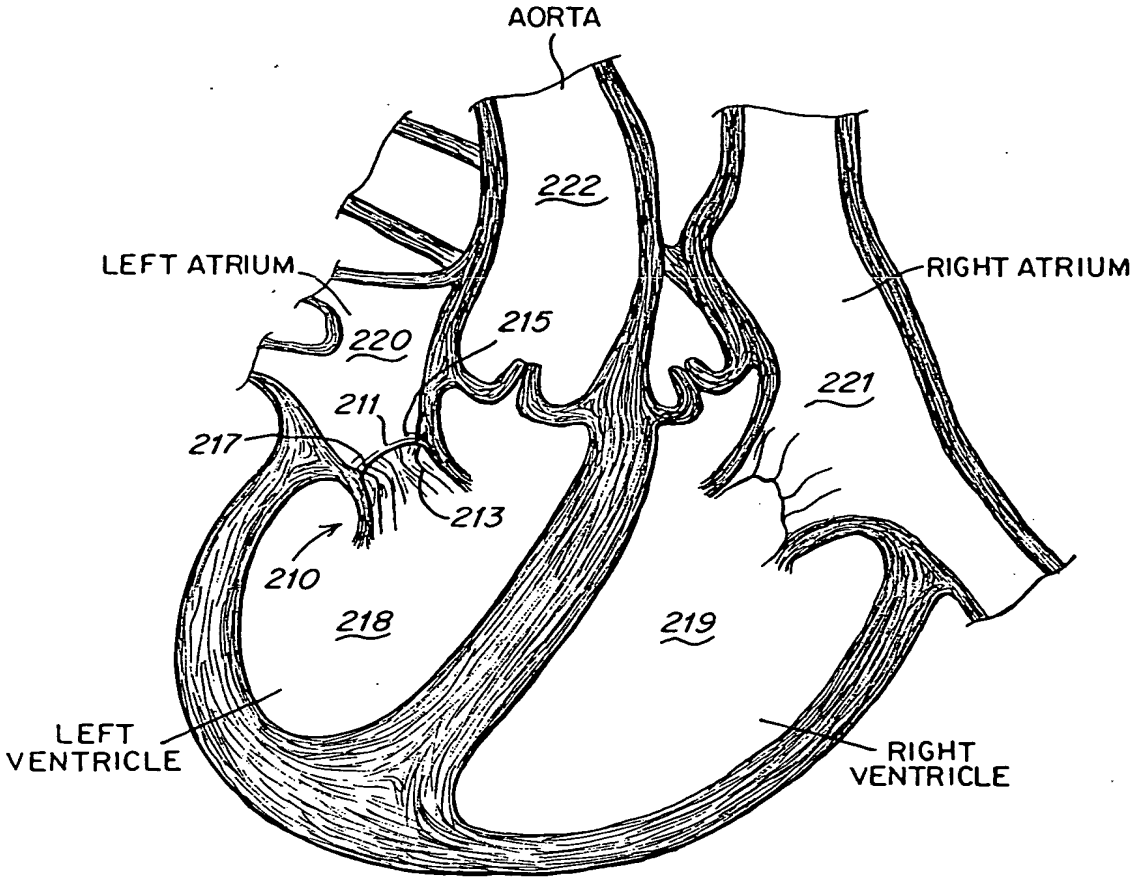

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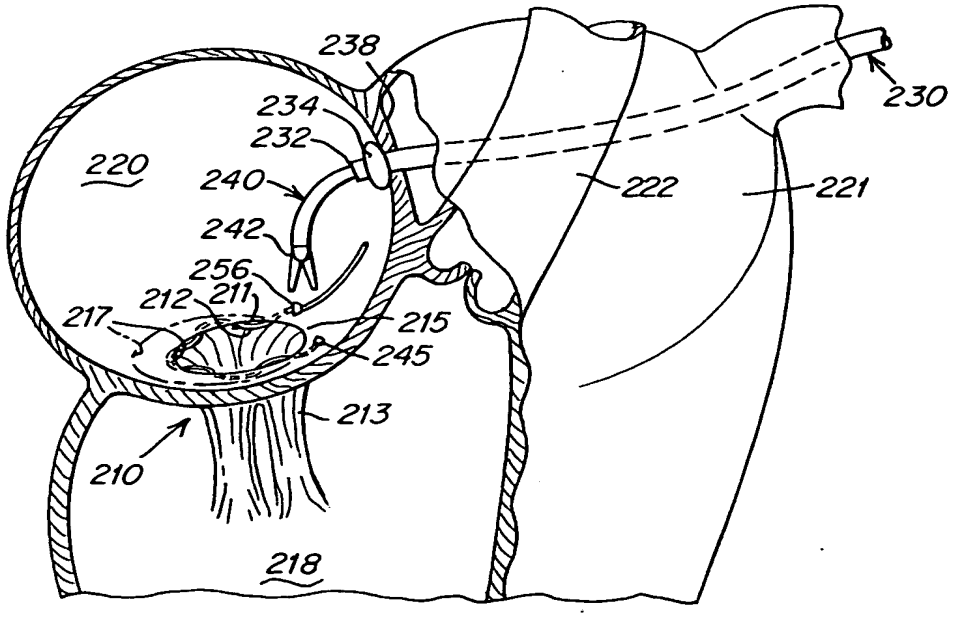
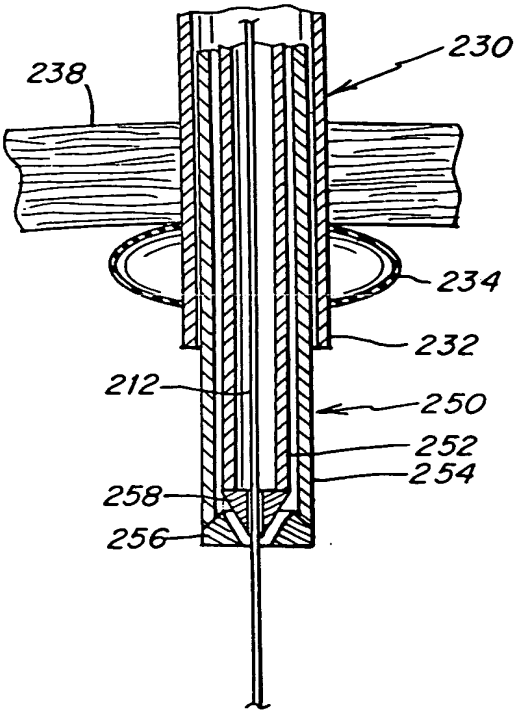


Fig. 20

Footprint-05-1-04



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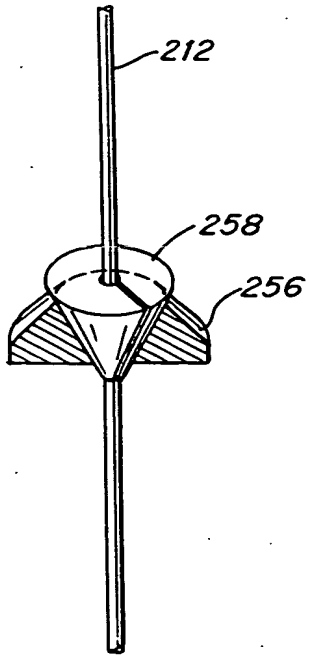

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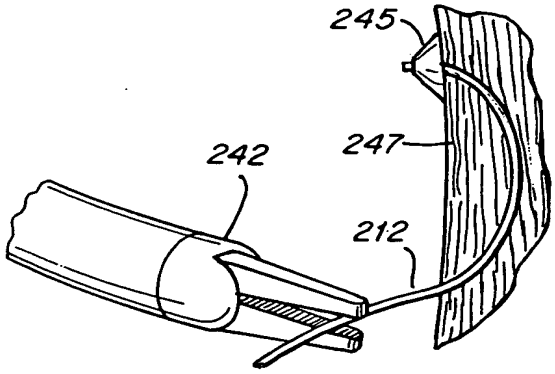

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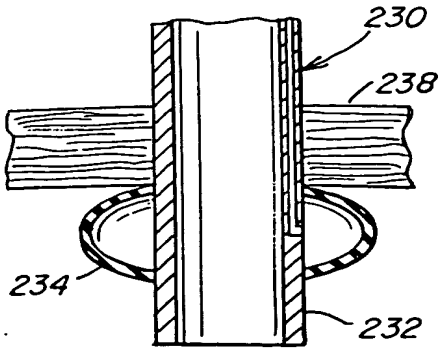

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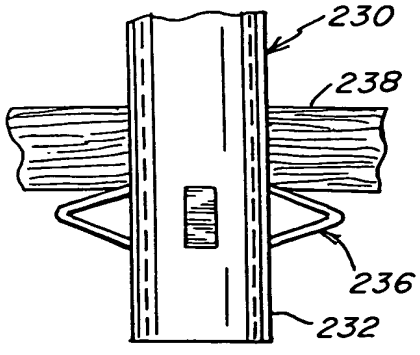

Fig. 25

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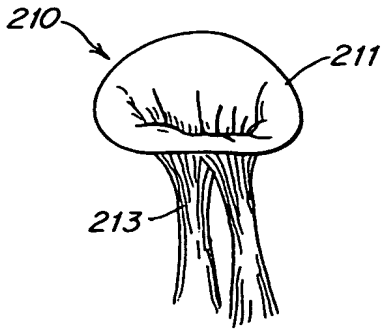

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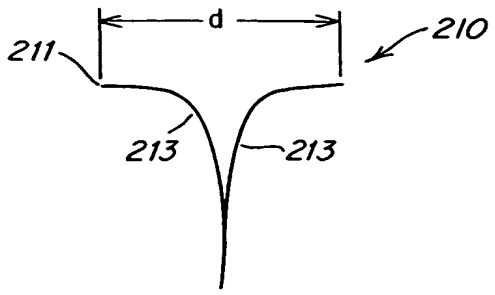

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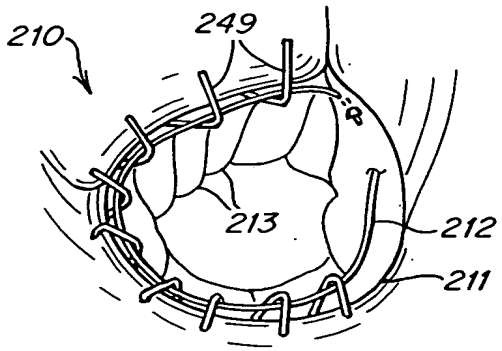
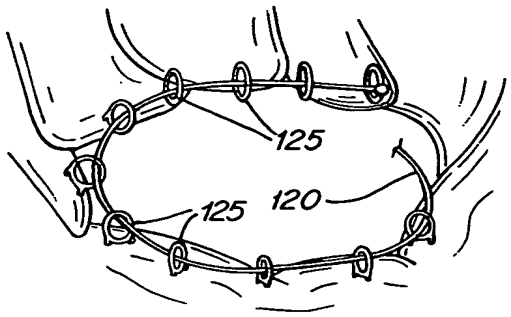


Fig. 28



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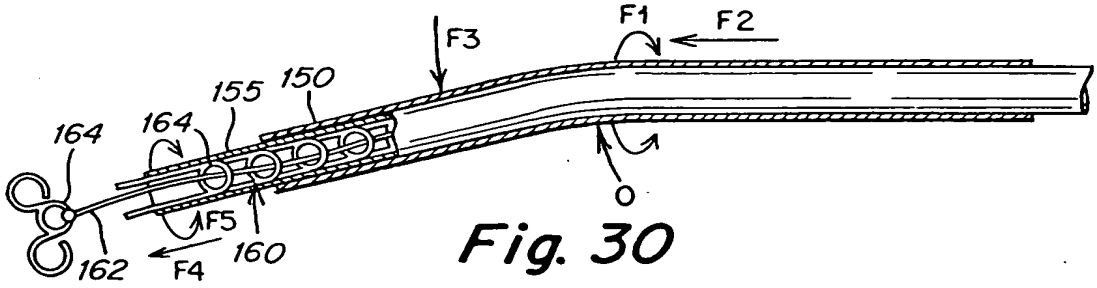

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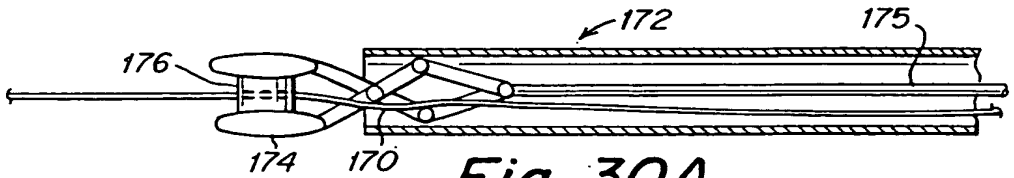

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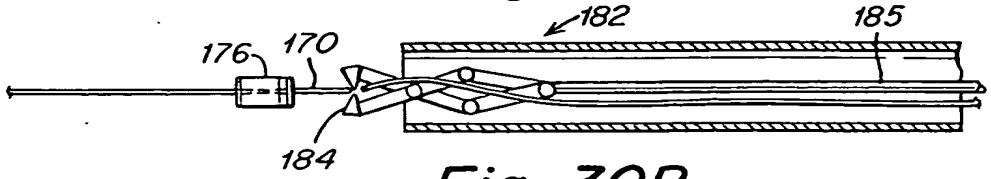

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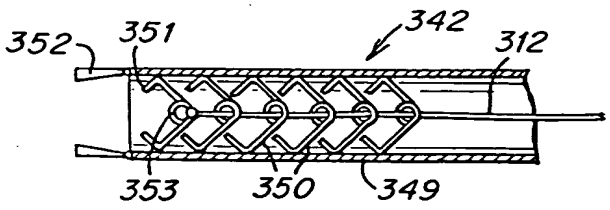

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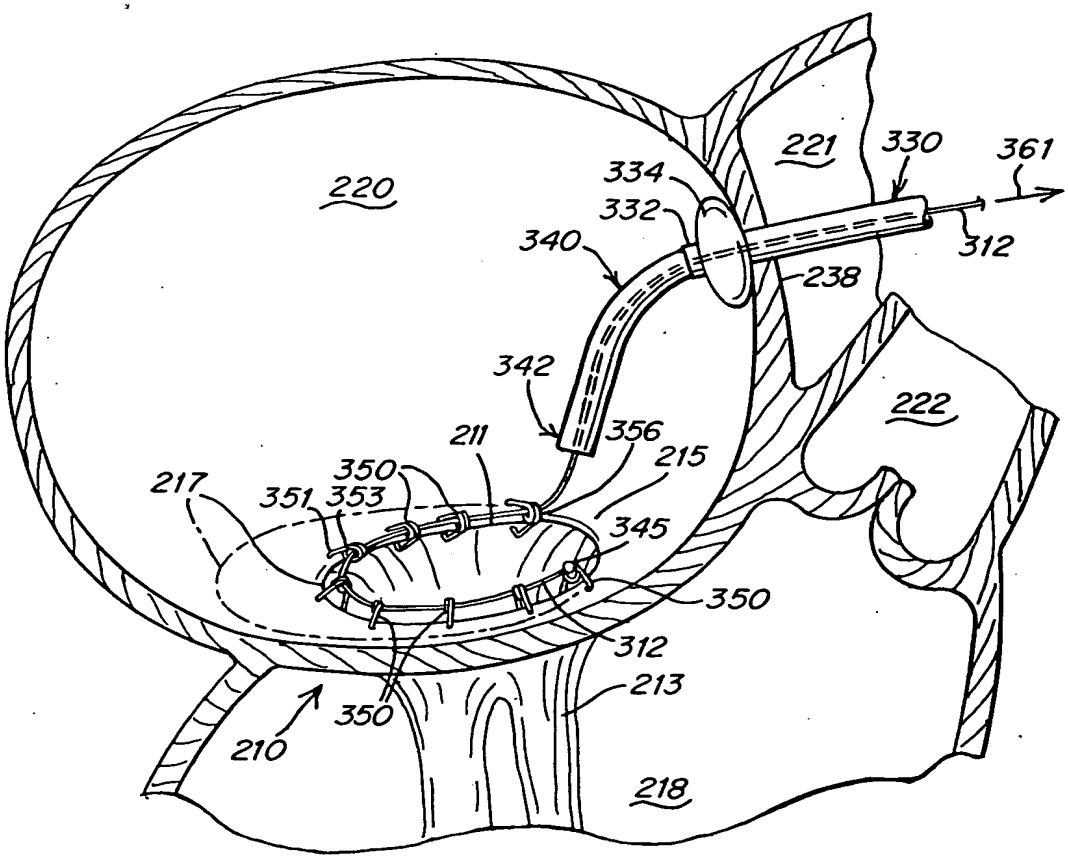

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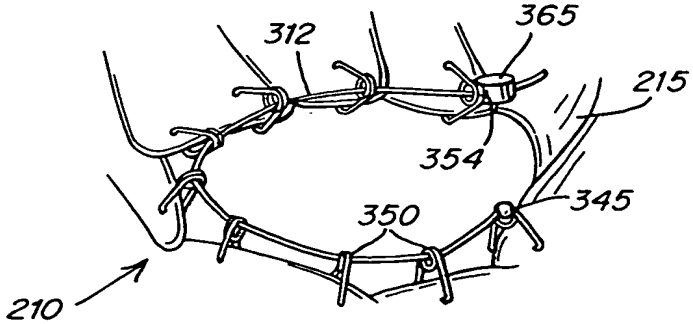

Fig. 33

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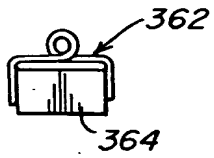

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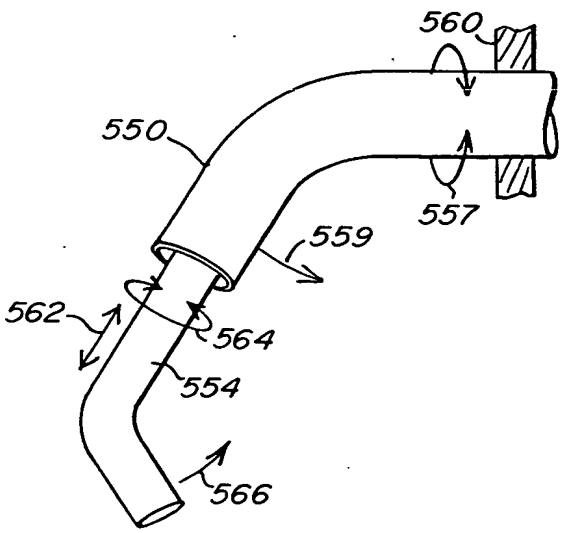

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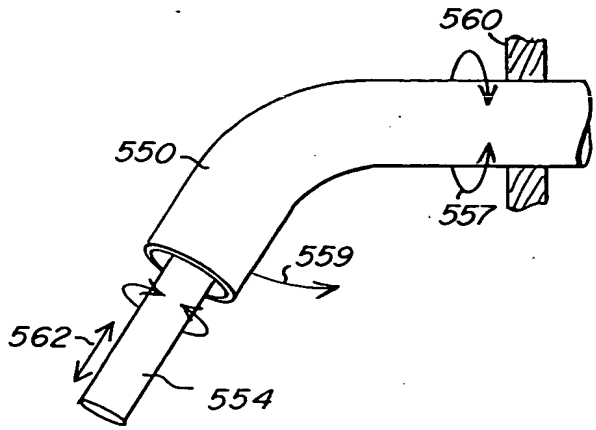
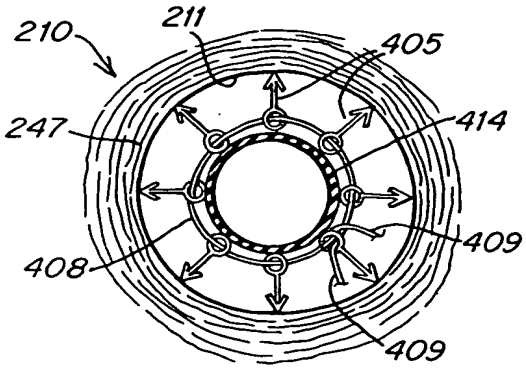


Fig. 35B



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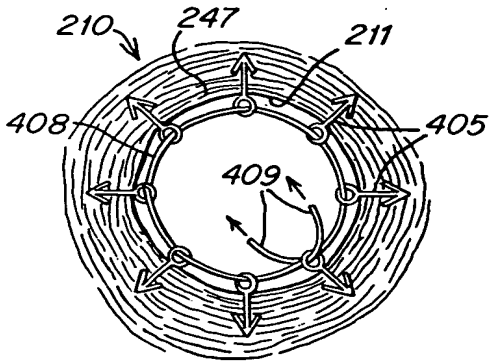

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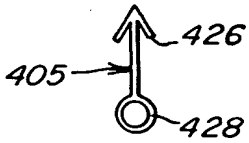

Fig. 36A

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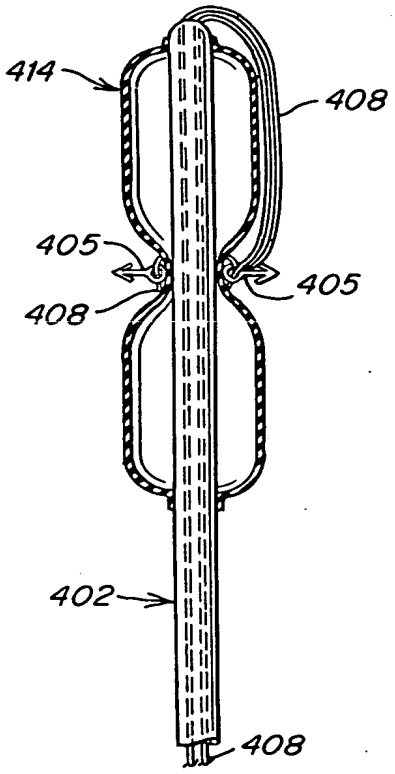

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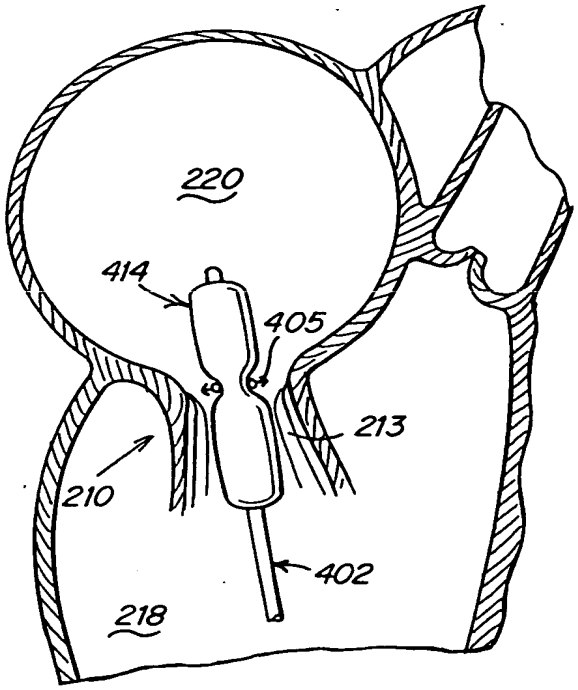

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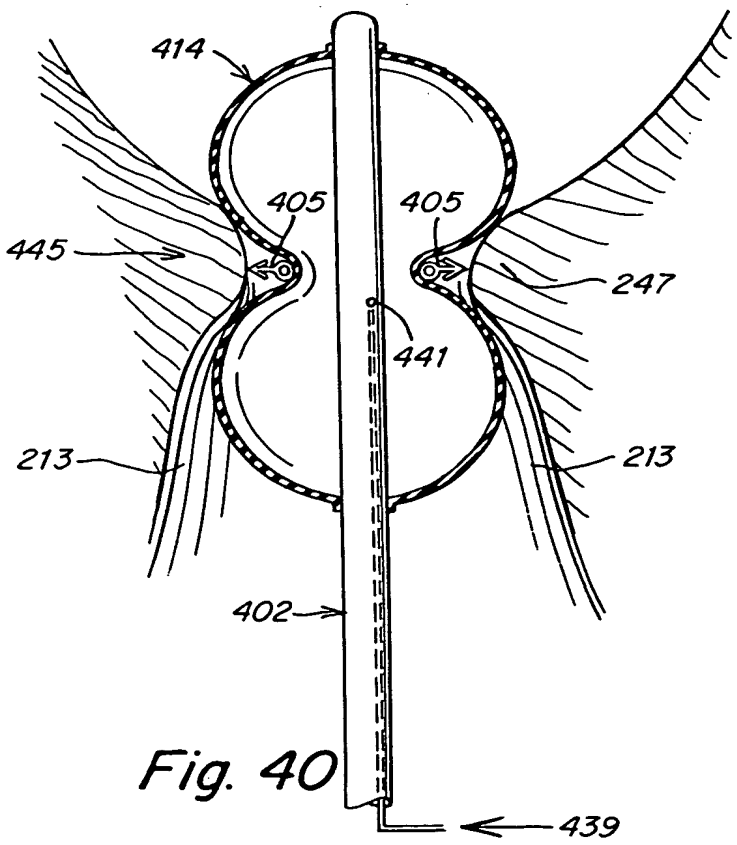

Fig. 40

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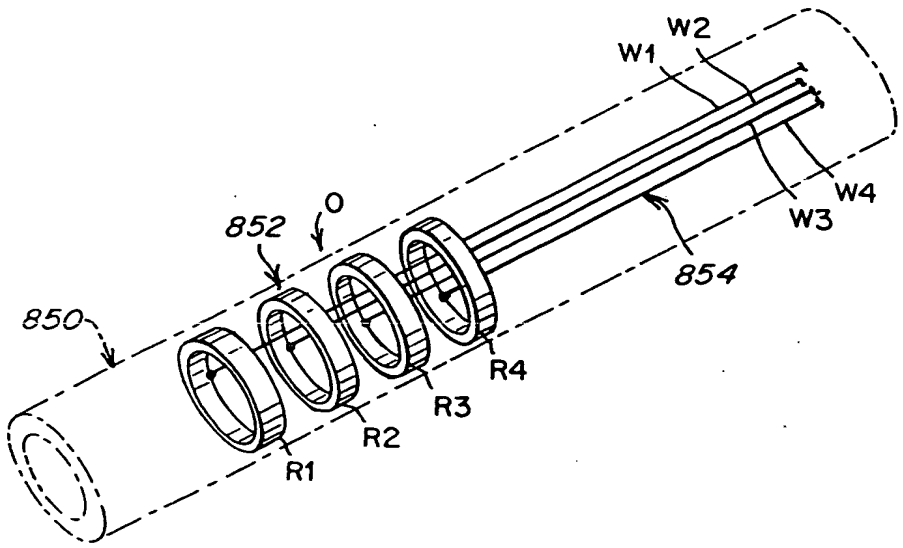


Fig. 41A

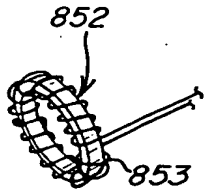


Fig. 41B

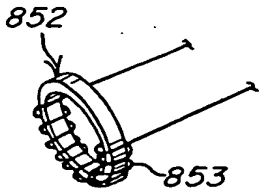
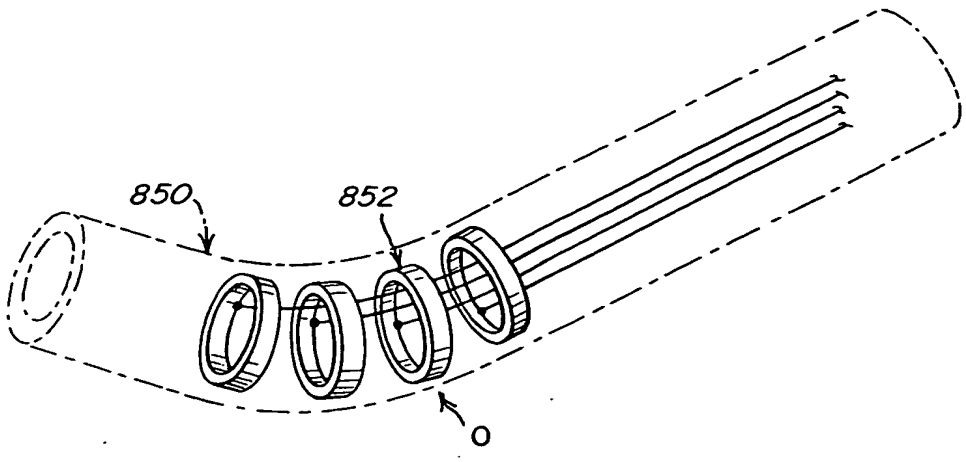


Fig. 41C



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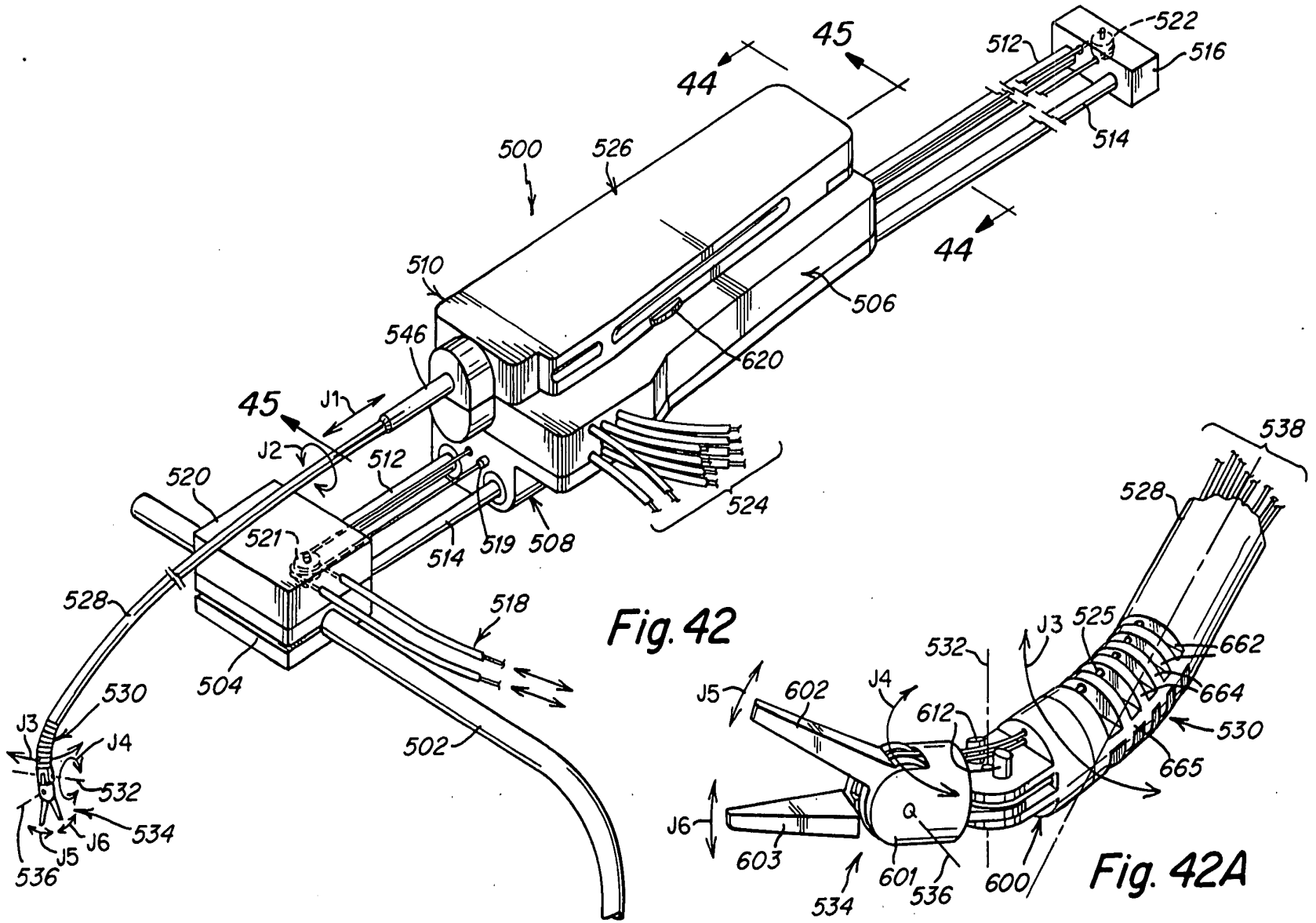

Fig. 42

Fig. 42A

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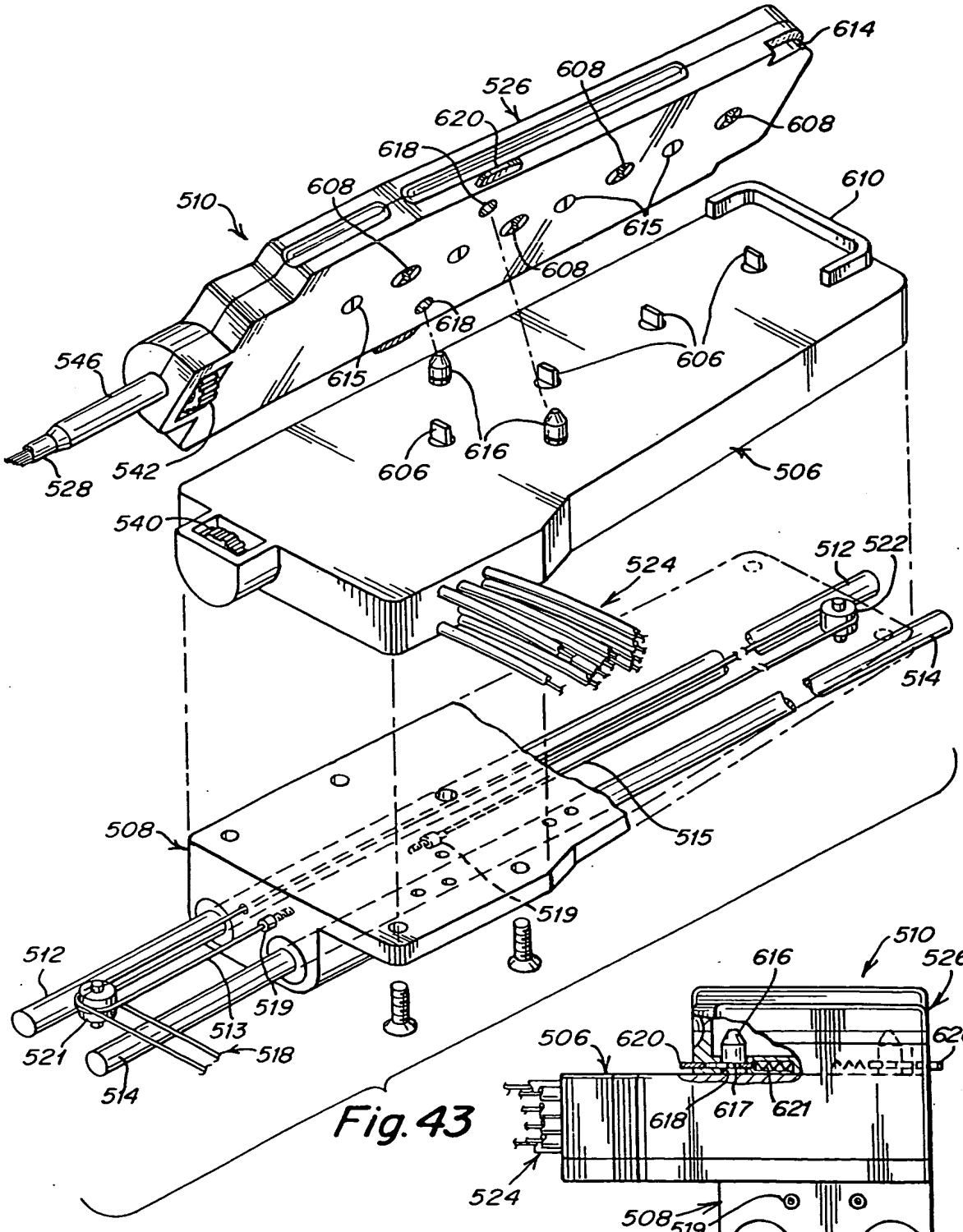


Fig. 43

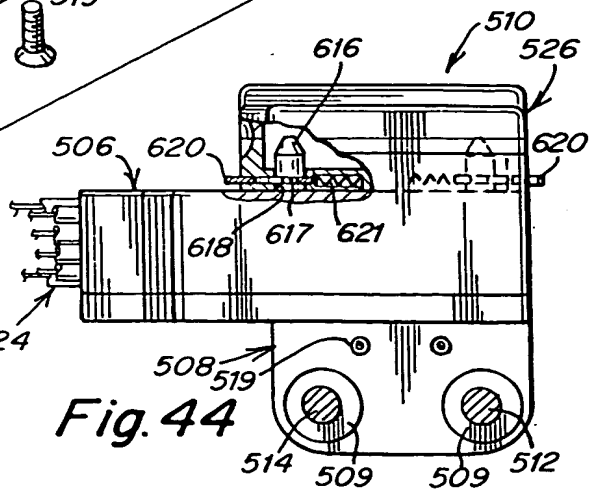
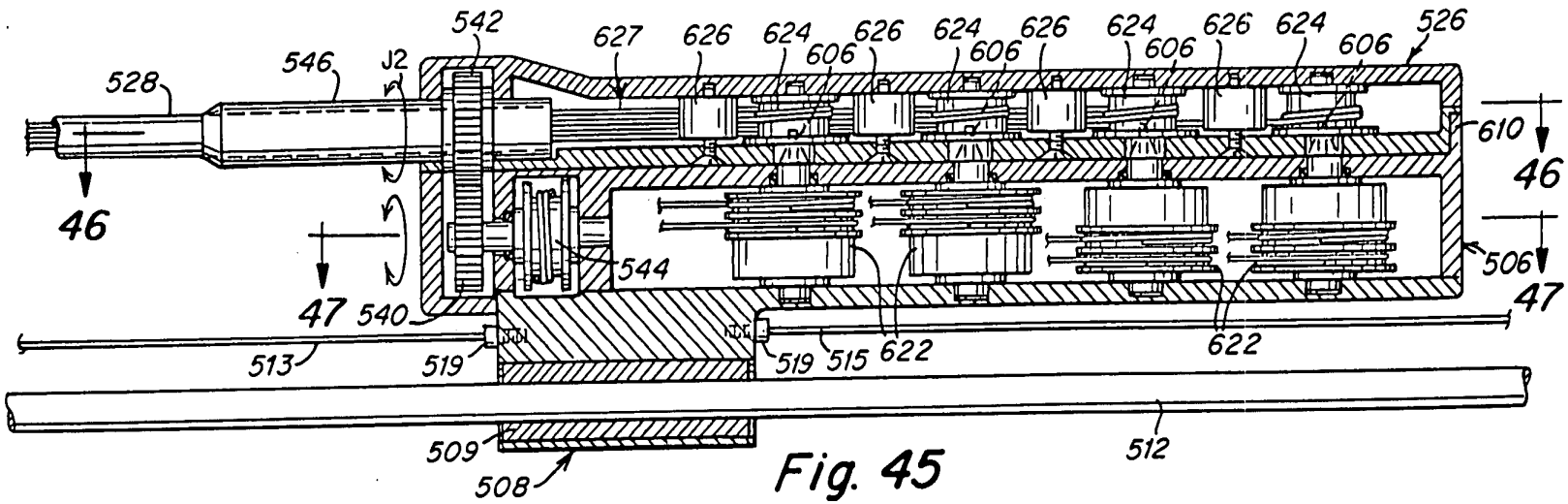


Fig. 44


542
627
626
624
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J2
610
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622
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512

Fig. 45

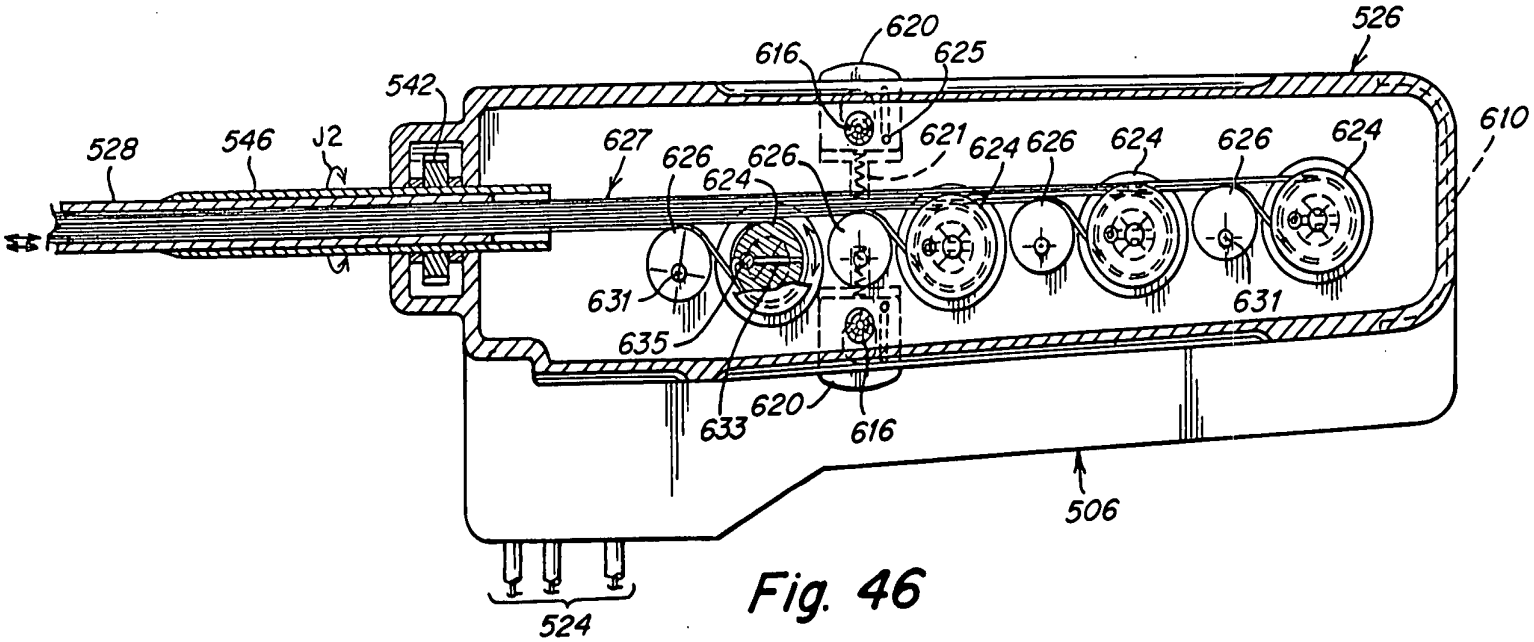
620
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Fig. 46

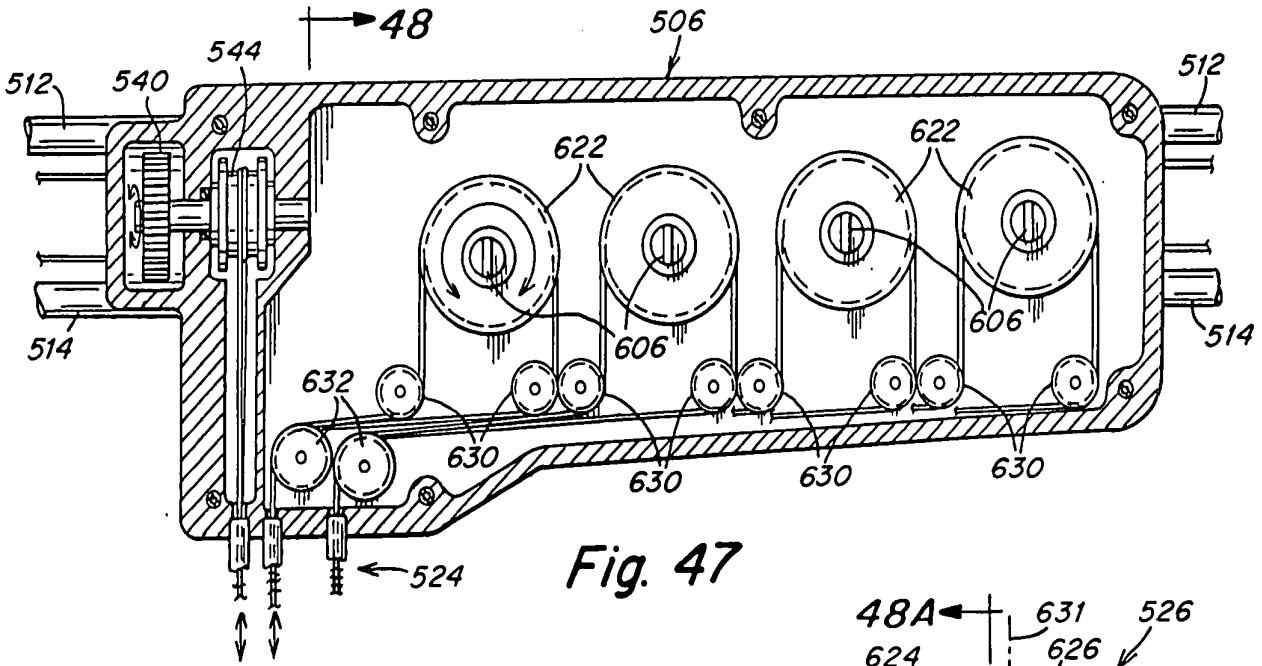
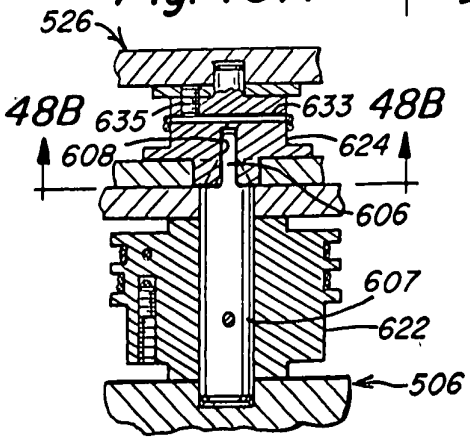


Fig. 47

Fig. 48A



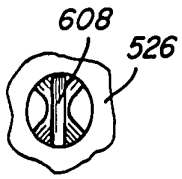


Fig. 48B

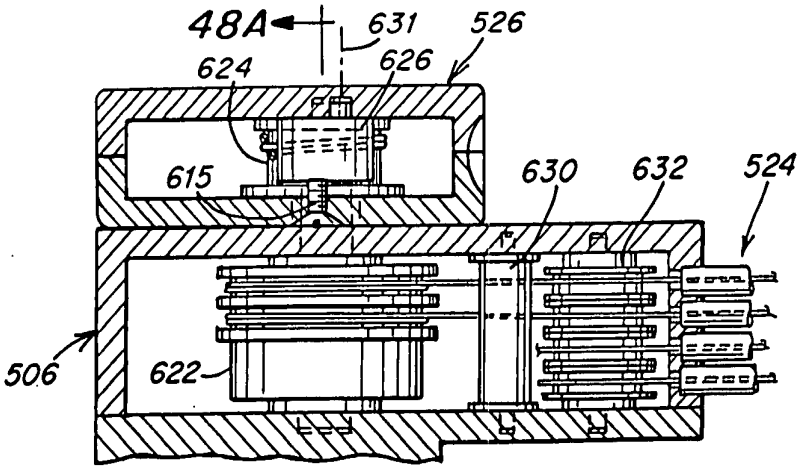
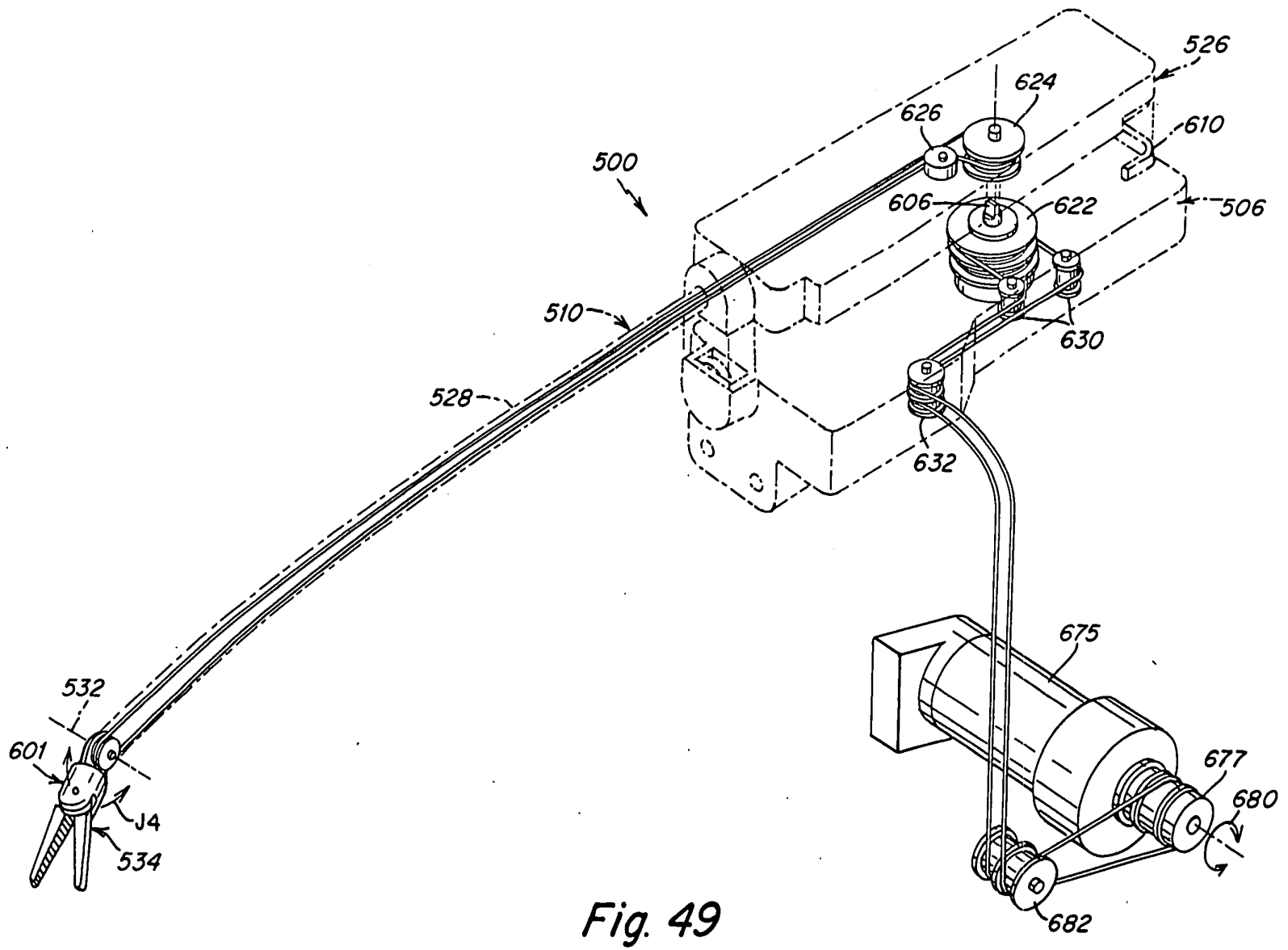


Fig. 48


526
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677
680
J4
534
682

Fig. 49